

Oven Aging

ASTM D573

Scope:

Oven aging is often used to accelerate the oxidative aging process. It is also a way of imitating conditions the specimen may be exposed to in the product lifetime. Standard testing can be performed on the aged samples and comparison can be made to non-aged samples.

Test procedure:

The samples are usually tensile bars placed in an aging oven. The temperature and the duration are specified by the customer. The specimens are removed at even increasing time period and tested after oven aging is complete.

Sample size:

Sample size is dependent on the tests to be performed after the aging process. Oxidative degradation results in polymer molecular weight loss which can be monitored by measurement of elongation.
Equipment used at Plastics Centre of Excellence:
Contherm Scientific Ovens.

